

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C12Q 1/00, C12P 1/00, C12N 5/00	A1	(11) International Publication Number: WO 97/09445 (43) International Publication Date: 13 March 1997 (13.03.97)
(21) International Application Number: PCT/US96/13850 (22) International Filing Date: 29 August 1996 (29.08.96) (30) Priority Data: 60/003,174 1 September 1995 (01.09.95) US (71)(72) Applicant and Inventor: SHAPIRO, Howard, K. [US/US]; 321 North Narberth Avenue, Narberth, PA 19072-1943 (US). (74) Agent: PERRELLA, Donald, J.; Wyatt, Gerber, Burke & Badie, 99 Park Avenue, New York, NY 10016 (US).		(81) Designated States: AU, CA, JP, MX, US, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i>
(54) Title: METHODS AND COMPOSITIONS FOR DEVELOPMENT OF DRUG SCREENING PROCEDURES AND DIAGNOSTIC TOOLS (57) Abstract This invention defines novel research and clinical laboratory methodologies and compositions related thereto appropriate for use in (a) determining the presence of a neurodegenerative disease; (b) monitoring the ongoing status of the physiological expression of said disease; and (c) screening candidate therapeutic drug agents for possible effectiveness in said disease.		

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US96/13850

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) : C12Q 1/00; C12P 1/00; C12N 5/00

US CL : 435/4, 41, 240.23; 436/811

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/4, 41, 240.23; 436/811

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Extra Sheet.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Huckriede et al. Decreased synthesis and inefficient mitochondrial import of hsp60 in a patient with a mitochondrial encephalomyopathy. Biochemica et Biophysica Acta. 1994, volume 1227, pages 200-206, see entire document.	1-27
Y	BAHN, R.S. The fibroblast is the Target Cell in the Connective Tissue Manifestations of Graves' Disease. Int Arch Allergy Immunol. 1995, volume 106, pages 213-218, see entire document.	1-27
Y	GAO, et al. Humoral response to hsp 65 in multiple sclerosis and other neurological conditions. Neurology. May 1994, volume 44, number 5, pages 941-946, see entire document.	1-27

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	*T	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
A document defining the general state of the art which is not considered to be of particular relevance	*X*	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
E earlier document published on or after the international filing date	*Y*	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	*Z*	document member of the same patent family
O document referring to an oral disclosure, use, exhibition or other means		
P document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

27 OCTOBER 1996

Date of mailing of the international search report

08 NOV 1996

Name and mailing address of the ISA/US
Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

Heather Bakalyar

Telephone No. (703) 308-0196

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US96/13850

B. FIELDS SEARCHED

Electronic data bases consulted (Name of data base and where practicable terms used):

DIALOG: AUTHOR AND WORD SEARCH (HEAT SHOCK PROTEIN OR HSP OR STRESS PROTEIN;
NEUROLOG? OR POLYNEUROPATH? OR NEUROPATH?; ATROPHY OR DEGENERAT?; TISSUE OR CELL
OR FIBROBLAST (WITH) CULTURE; ANTIBOD?; DIAGNOS? OR INDICAT? OR IDNETIF?
MEDLINE, SCISEARCH, USPATFULL, EMBASE, WPI